NOVEMBER/DECEMBER 2024

BECA63B — MOBILE COMPUTING

Time : Three hours Maximum : 75 marks

SHANMUGA INDUSTRIES ARTS & SCIENCE COLLEGE LIBRARY

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Define: Dynamic Channel Allocation
2. State any two disadvantages of Cellular System with Small Cells.
3. Write a short note on HIPERLAN.
4. Compare Proactive and Reactive Protocols.
5. Write the acronyms for GPRS and GSM.
6. Differences between Multi-Hop and Ad-Hoc Networks.
7. Define: WML.
8. What is the use of WCMP?
9. Mention the purpose of using Mobile Database,
10. Write any two issues of Mobile Databases.

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Briefly describe the concept of Frequency Management and Channel Assignment.

Or

(b) Write an account on Cellular Wireless Networks.

12. (a) Illustrate the Protocol architecture of GSM with Signalling Protocols..

Or

(b) Compare Infrared versus Radio Transmission Technologies.

13. (a) Differentiate between Wired Networks and ad-hoc Wireless Network related to Routing.

Or

(b) Write an account on Mobile TCP and also list their advantages.

14. (a) With a neat sketch, explain the WAP architecture.

Or

(b) Enumerate the basic features of Wireless Mark-up Language.

15. (a) Briefly discuss the "Mobile database Hoarding techniques".

Or

(b) Examine the Client-Server Computing with Adaptation.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Describe about the concept of SDMA FDMA and CDMA Systems.

17. Explicate three different Physical Layers supported by IEEE 802.11.

18. Analyze the various mechanisms in the Transmission Control Protocol.

19. Discuss in detail about the "WAP Gateway".

20. Expound the Transactional models of Mobile Database.

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